



2611

Patent  
PD-201014  
Customer No. 020991

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Ernest C. Chen

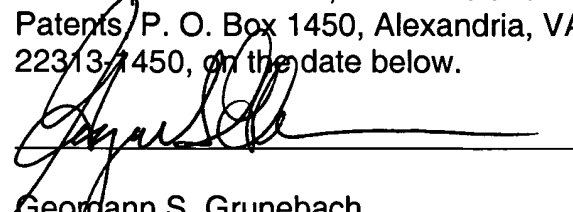
Serial No.: 10/532,619  
371(c) Date: April 25, 2005

For: MAXIMIZING POWER AND  
SPECTRAL EFFICIENCIES FOR  
LAYERED AND CONVENTIONAL  
MODULATIONS

Group Art Unit: 2611  
Examiner: PATEL, Jayanti K.

: I hereby certify that this correspondence is  
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: Mail Stop Amendment, Commissioner for  
: Patents, P. O. Box 1450, Alexandria, VA  
: 22313-1450, on the date below.

:   
: Georgann S. Grunebach  
: Typed or printed name of person signing certificate

: Date: July 18, 2006

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The references cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. It is respectfully requested that the references be considered and made of record in the application identified above.

This statement should be considered because it is being submitted before the mailing of a first Office action on the merits under 37 C.F.R. §1.97(b)(3). Accordingly, it is submitted that no fee is due in this matter.

However, if it is determined that any appropriate fee is due, the Commissioner is hereby authorized to charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California.

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

Respectfully submitted,

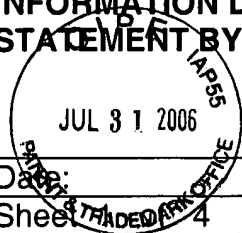
By:

  
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July 18, 2006

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**


Date: July 18, 2006

Sheet 4

## Complete if Known

Application Number	10/532,619
Filing Date	04-25-2005
First Named Inventor	Ernest C. Chen
Art Unit	2611
Examiner Name	PATEL, Jayanti K.

Attorney Docket Number	PD-201014
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**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-4,637,017	01-1987	Assal et al.	
		US-5,940,025	08-1999	Koehnke et al.	
		US-5,870,443	02-1999	Rahnema, Moe	
		US-2003/0138037	07-2003	Kaku et al.	
		US-2002/0158619	10-2002	Chen, Ernest C.	
		US-6,426,822	07-2002	Winter et al.	
		US-2004/0110467	06-2004	Wang, Arthur W.	
		US-6,535,801	03-2003	Geier et al.	
		US-6,325,332	12-2001	Cellier et al.	
		US-6,052,586	04-2000	Karabinis, Peter D.	
		US-5,995,832	11-1999	Mallinckrodt, Albert J.	
		US-6,741,662	05-2004	Franco et al.	
		US-2004/0146296	07-2004	Gerszberg et al.	
		US-5,648,955	07-1997	Jensen et al.	
		US-4,860,315	08-1989	Hosoda et al.	
		US-4,654,863	03-1987	Belfield et al.	
		US-5,229,765	07-1993	Gardner, Wallace R.	
		US-5,285,480	02-1994	Chennakeshu et al.	
		US-6,934,314	08-2005	Harles et al.	
		US-4,993,047	02-1991	Moffat et al.	
		US-5,111,155	05-1992	Keate et al.	
		US-6,307,435	10-2001	Nguyen et al.	
		US-6,008,692	12-1999	Escartin, Marko	
		US-6,249,180	06-2001	Maalej et al.	
		US-5,581,229	12-1996	Hunt, Paul C.	
		US-6,366,309	04-2002	Siegle, Gert	
		US-4,835,790	05-1989	Yoshida et al.	
		US-5,317,599	05-1994	Obata	

Examiner  
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Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form PTO/SB/08A  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Complete if Known	
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	Examiner Name	PATEL, Jayanti K.
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Sheet 2 of 4	Attorney Docket Number	PD-201014

U.S. PATENT DOCUMENTS					
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		US-5,557,067	11-1996	Zimmerman	
		US-6,021,159	02-2000	Nakagawa	
		US-6,061,393	05-2000	Tsui et al.	
		US-5,963,845	10-1999	Floury et al.	
		US-6,272,679	08-2001	Norin, John L.	
		US-6,212,360	04-2001	Fleming et al.	
		US-6,188,717	02-2001	Kaiser et al.	
		US-6,141,534	10-2000	Snell et al.	
		US-6,131,013	10-2000	Bergstrom et al.	
		US-6,084,919	07-2000	Kleider et al.	
		US-4,896,369	01-1990	Adams et al.	
		US-6,892,068	04-2002	Karabinis et al.	
		US-5,848,060	12-1998	Dent	
		US-5,555,257	09-1996	Dent	
		US-5,642,358	06-1997	Dent	
		US-5,199,047	03-1993	Koch, Wolfgang	
		US-5,088,110	02-1992	Bonnerot et al.	
		US-4,847,864	07-1989	Cupo, Robert L.	
		US-4,709,374	11-1987	Farrow, Cecil W.	
		US-4,594,725	06-1986	Desperben et al.	
		US-4,519,084	05-1985	Langseth, Rollin E.	
		US-4,416,015	11-1983	Gitlin, Richard D.	
		US-4,384,355	05-1983	Werner, Jean-Jacques	
		US-4,213,095	07-1980	Falconer, David D.	
		US-RE 31,351	08-1983	Falconer, David D.	
		US-6,429,740	08-2002	Nguyen et al.	
		US-6,166,601	12-2000	Shalom et al.	
		US-5,966,048	10-1999	Thompson	

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		US-5,606,286	02-1997	Bains	
		US-5,221,908	06-1993	Katz et al.	
		US-4,918,708	04-1990	Pottinger et al.	
		US-4,878,030	10-1989	Vincze	
		US-4,670,789	06-1987	Plume	
		US-4,647,873	03-1987	Beckner et al.	
		US-4,628,507	12-1986	Otani	
		US-4,500,984	02-1985	Shimbo et al.	
		US-4,283,684	08-1981	Satoh	
		US-4,068,186	01-1978	Sato et al.	
		US-2001/0024479	09-2001	Samarasooriya	
		US-5,732,113	03-1998	Schmidl et al.	
		US-5,793,818	08-1998	Claydon et al.	
		US-5,828,710	10-1998	Beale	
		US-6,018,556	01-2000	Janesch et al.	
		US-6,128,357	10-2000	Lu et al.	
		US-6,411,659	06-2002	Liu et al.	

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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document  Country Code-Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		FR 2696295	04-1994	Jaspal, Singh Bharj		
		JP 07-038615	02-1995	Yasushi, Sogabe		
		DE 3642213	12-1986	Lopau et al.		
		JP 5-252084	09-1993	Takenaka et al.		
		JP 5-114878	05-1993	Kazama et al.		
		JP 5-41683	02-1993	Matsudo et al.		
		JP 2-95033	04-1990	Yamamoto, Yoshihiko		
		JP 2-5631	01-1990	Oda, Hirobumi		
		JP 03139027	06-1991	Nippon Telegraph and Telephone Corporation		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
		WOLCOTT, TED J. ET AL.; "Uplink-Noise Limited Satellite Channels"; IEEE 1995; pages 717-721; XP-00580915	
		SESKAR, IVAN ET AL.; "Implementation Aspects for Successive Interface Cancellation in DS/CDMA Systems"; Wireless Networks; 1998; pages 447-452	
		Earth Station Technology; 1986; pages 404-412; XP-002248387	

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